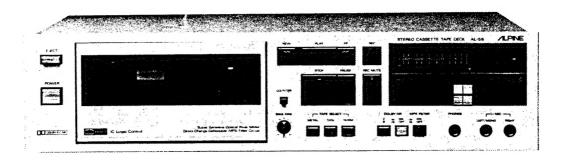
SERVICE MANUAL /LPINE







Contents
Specifications
Parts Locations and Disassembly Instructions
Adjustment Procedures
Adjustment Locations
Trouble Shooting Guide
Replacement of Mechanical Parts
Block Diagram
Parts Layout on P.C. Boards
Wiring Diagram
Schematic Diagram 21 to 22
Electrical Parts List
Cabinet Assembly Parts List
Exploded View (Cabinet)
Exploded View (Cassette Deck)
Cassette Deck Assembly Parts List
Packing Method View
Packing Assembly Parts List
Semi-Conductor Lead Identifications

Specifications

Power Source
120V, AC 60 Hz (For Single-Voltage Model Only)
Power Consumption
Tape Speed
Wow & Flutter (JIS WRMS Playback Mode)
FF/REW Time (C-60)
Frequency Response Normal: 30 Hz \sim 16 KHz, CrO ₂ : 30 Hz \sim 17 KHz, Metal: 30 Hz \sim 18 KHz
Rec/Play Head
Erase Head Double Gaps Ferrite Core
Load Impedance Line Out: 100K ohm, Head Phone: 8 oh m
S/N Ratio (NR/OFF)
NR-C: Norm: 63 dB, Chrome/Metal: 65 dB
Input Sensitivity Mic: Norm/0.3m V
Line: Chrome/Metal/100m V
Output Level Line Out: 550mV ±1 dB, Head Phone: 65m V
Stereo Separation
Semiconductors
Dimensions
Weight
Distortion

Parts Locations and Disassembly Instructions

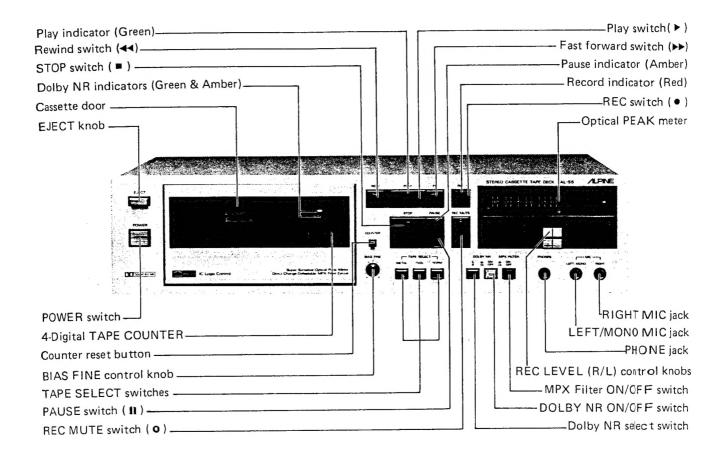


Figure 1

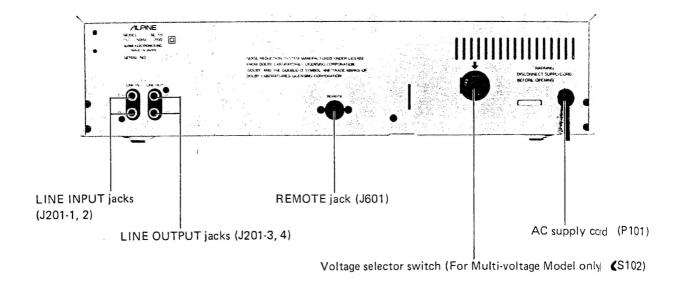


Figure 2

1. Removal of Top Cover

- (1) Remove four screws marked " 0" as shown in Figures 3 and 4.
- (2) Lift up the top cover in the direction of the arrow as shown in Figure 3.

2. Removal of Front Panel

- (1) After removal of top cover, remove two connectors as shown in Figure 5.
- (2) Remove one screw marked " * " as shown in Figure 5.
- (3) Remove six screws marked " \(\triangle \)" as shown in Figures 5 and 6.
- (4) Remove the front panel from the main chassis in the direction of the arrow as shown in Figure 3.

3. Removal of Optical Meter with Lamp P.C. Board

- (1) After removal of the top cover and front panel, remove three screws marked " • " as shown in Figure 5.
- (2) Remove the meter frame and scale meter as shown in Figure 7.
- (3) Pull out the optical meter as shown in Figure 5.
- (4) Disconnect all wires from the optical meter and Lamp P.C. Board.
- (5) Remove the optical meter with Lamp P.C. Board.

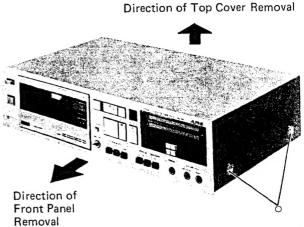


Figure 3

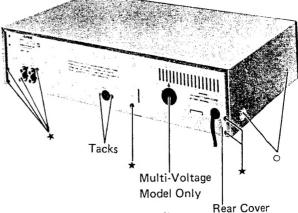
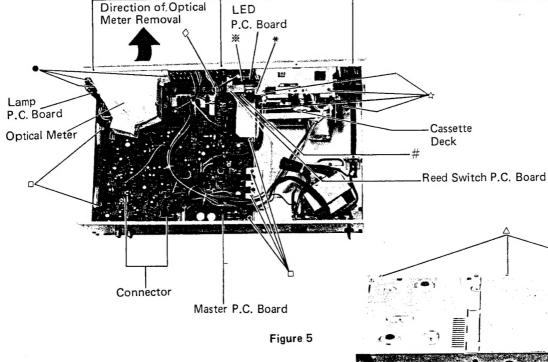


Figure 4



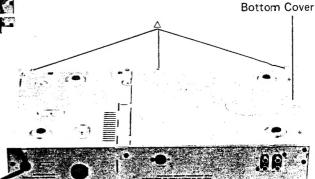


Figure 6

4. Removal of Rear Cover

- (1) After removal of the top cover, remove seven screws marked "*" as shown in Figure 4.
- (2) Remove two tacks as shown in Figure 4.
- (3) Remove the rear cover.

5. Removal of Master P.C. Board

- (1) After removal of top cover and front panel, remove six screws marked "□" from the master P.C. Board as shown in Figure 5.
- (2) Remove three jack stopper from the mic jack and phones jack as shown in Figure 7.
- (3) Remove three screws marked "◊" as shown in Figures 5 and 7.
- (4) Remove bias fine knob as shown in Figure 7.
- (5) Disconnect all wires from the master P.C. Board.
- (6) The P.C. Board can be completely removed from the chassis.

6. Removal of REC. VR.

- (1) Remove four screws marked " ♦ " as shown in Figure 7.
- (2) Remove two knobs from the REC. VR. as shown in Figure 7.
- (3) Disconnect all wires from the REC. VR.

7. Removal of Key Board P.C. Board

- (1) Remove four screws marked "▲" from the key board P.C. Board as shown in Figure 8.
- (2) Disconnect all wires from the key board P.C. Board.

8. Removal of reed Switch P.C.Board

- (1) Remove one screw marked "#" as shown in Figure 5.
- (2) Disconnect all wires from the Reed Switch P.C. Bpard.

9. Removal of L.E.D. P.C. Board

- (1) Remove one screw marked "* as shown in Fig-
- (2) Disconnect all wires from the L.E.D. P.C. Board

10. Removal of Cassette Deck

- (1) Lift up the cassette door in the direction of the arrow as shown in Figure 7.
- (2) Remove four screws marked " \(\psi \) " from the cassette deck as shown in Figure 5.
- (3) Disconnect all wires from the cassette deck.
- (4) The cassette deck can be completely removed from the chassis.

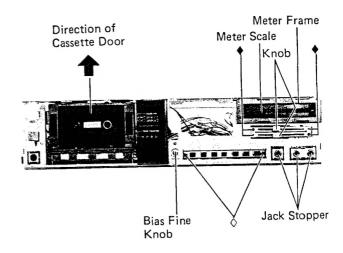


Figure 7

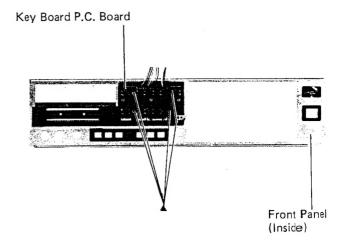


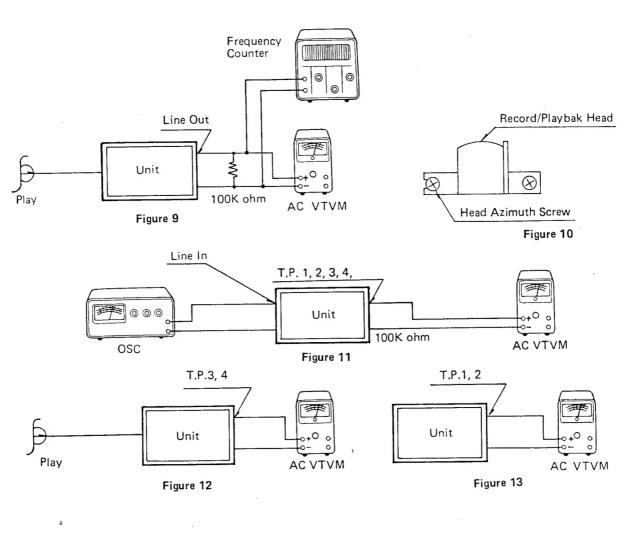
Figure 8

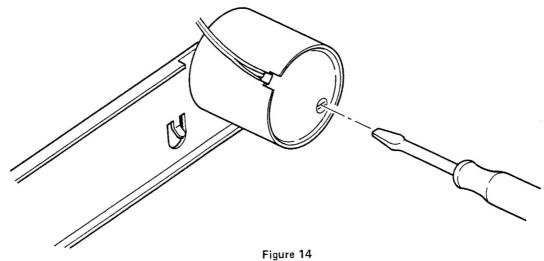
Adjustment Procedures

STEP	DESCRIPTION	ON	MODE (SWITCH)	ADJUST POINTS	TEST POINTS	CONNECTION INSTRUCTION	R	EMARKS
1	Head Azimuth Adjustment		Play Tape: Nor NR: Off	Head Azimuth Screw (Figure 10)	Line Out	Figure 9	Test Tape: N Adjust for Ma	
2	Tape Speed Adjustment		Play Tape: Nor NR:Off	Round hole on the rear of the motor (Figure 14)	Line Out	Figure 9	Test Tape: M Adjust for 30	
3	Playback Level Adjustment		Play Tape: Nor NR: Off	VR201 VR202	T.P.3 T.P.4	Figure 12	Test Tape: M Test Point Ou	TT-150 utput: 580 mV
	Input Adjustment		Record Tape: Nor NR: Off	VR203	T.P.3 T.P.4	Figure 11		00 Hz, 300mV utput: 580mV
4	Level Meter Adjustment		Record Tape: Nor NR: Off	VR401 VR402	Level Meter Reading	Figure 11	Line Input: 400 Hz, 300mV Adjust for 0 dB	
5	Recording Current Adjustment		Record Tape: Metal NR: Off Bias: Off (See Note)	VR501 VR502	T.P.1 T.P.2	Figure 11	Conditions at Adjust for 7.5 See chart belo typical bias le Bias CrO ₂ NORM	5mV. ow for another
		1	Record Tape: Metal NR: Off	VR505 VR506	T.P.1 T.P.2	Figure 13	Input: Non Test Point Ou	tput: 75 ∼ 85mV
6	Recording	@	Record Tape: CrO ₂ NR: Off	VR503 VR504	T.P.1 T.P.2	Figure 13	Input: Non Test Point Ou	itput: $35 \sim$ 42 mV
О	Bias Adjustment	3	Record Tape: Nor NR: Off	VR508	T.P.1 T.P.2	Figure 13	Input: Non Test Point Ou	tput: 25 ~ 3 4mV

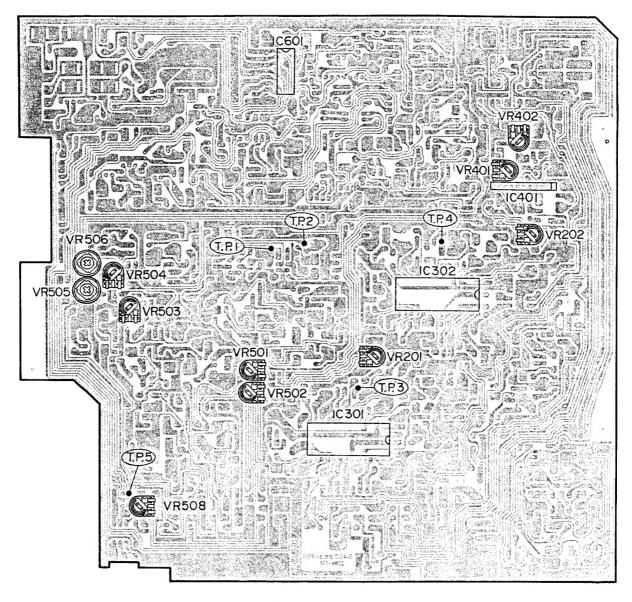
Note

Bias Off: T.P.5 to ground.





Adjustment Locations



Master Board P.C.Board

Trouble Shooting Guide

Symptom	Possible Cause	Remedies
No power.	 Defective power switch (S101). Disconnected Fuse (F101 ~ 103). (For multi-voltage model only). Defective DC supply block. Defective power connections. 	 Replace switch. Replace fuse. Check and repair DC power. Check and repair wiring.
Capstan shaft does not rotate.	Main belt out of place or its disconnection. Defective motor. Burning of flywheel shaft.	 Reinstall or replace main belt. Replace motor. Lubricate or replace flywheel shaft.
Head base does not go up.	Defective play solenoid (SD601). Defective control circuit. Deformation of spring plate.	 Replace play solenoid. Check and repair. Modify spring plate.
		Solenoid Arm Solenoid Arm Gear O O Spring Plate
	4. Deformation of assist base stopper.	4. Modify the angle of bending part of assist base stopper.
Mor 90°	Be than 87° to 90°	Assist Base

Symptom	Possible Cause	Remedies
Cassette tape does not run. (No taking up operation).	 Sub belt out of place or its disconnection. Slippage of play idler. Defective take-up reel. 	 Reinstall or replace sub belt. Clean play idler. Replace take-up reel.
·	Clutch Gear Play Idler	Take-up Reel
FF/REW does not function.	Defective FF (SD603)/REW (SD602) solenoids. Defective control circuit.	Replace them. Check and repair.
Excessive wow/flutter.	 Defective flywheel assembly. Defective motor. Defective drive belt. Defective pinch roller assembly. Slippage between tape and pinch roller. Swing of center clutch. Swing of back tension. 	 Replace flywheel assembly. Replace motor. Replace drive belt. Replace pinch roller assembly. Clean pinch roller. Replace center clutch. Modify back tension spring and apply grease on the spring plate. Apply grease here Spring plate Chassis
Playback does not function.	 Dirty recording/playback head. Defective recording/playback head. Disconnected wire between recording/playback head and playback amplifier. Defective playback level adjustment volumes (VR201, 202) or their slippage. Defective playback amplifier. 	 Clean head. Replace head. Check wiring and repair. Readjust or replace volumes. Repair or replace.

Symptom	Possible Cause Remedies	
	6. Defective Dolby circuit. 7. Defective muting circuit. 8. Defective contact of line-out jack of its defect.	6. Repair or replace.7. Repair or replace.8. Repair or replace.
Erasing does not function. (No signal input)	 Defective rec. inh. switch (S602). Removal of safety tabs of cassette tape. Dirty erase head. Defective erase head. Wire disconnection to erase head. Defective bias OSC. Defective bias OSC trans. 	 Replace switch. Fix tabs. Clean head. Replace head. Check wiring and repair. Check and repair. Replace trans.
Recording does not function.	1. Defective contact of line-in jack or its defect. 2. Defective contact of mic jack or its defect and defect of mic	 Repair or replace. Repair or replace.
	amplifier. 3. Defective rec volume (VR203). 4. Defective Dolby circuit. 5. Slippage of rec. current adjusting volumes (VR501, 502) or their	3. Replace volume.4. Repair or replace.5. Readjust or replace.
	defect. 6. Defective rec. amplifier. 7. Slippage of rec. bias adjusting volumes (VR503 m 508) or their defect.	6. Repair or replace.7. Repair or replace.
	8. Disconnected wire between recording/playback head and record amplifier.9. Dirty recording/playback head.10. Defective recording/playback head.	8. Check wiring and repair.9. Clean head.10. Replace head.
Distorted Sound.	Distortion of input signal. Level-over of input signal.	1. Check input signal. 2. Lower input level.
	 3. Bias is too small or not flowing. 4. Misposition of rec. bias adjusting volume (VR503 ~ 508). 5. Large distortion of bias waveforms. 6. Magnetization of recording/playback head. 	3. Adjust to suitable bias.4. Adjust to suitable bias.5. Check bias OSC.6. Demagnetize with head eraser.
	7. Dirty recording/playback head.	7. Clean head.

Replacement of Mechanical Parts

Removal of Cassette Deck

Prior to Replacement Procedures, remove the cassette deck assembly according to "Removal of Cassette Deck" on page 5.

Replacement of Head

- (1) Remove two screws marked " * " from the cassette door bracket of the cassette deck as shown in Figure 15 and the cassette door can be removed.
- (2) Remove two screws marked " O" and wires from both sides of the R/P head " A" as shown in Figure 16, and it can be removed, with head P.C. Board. Remove the head from the P.C. Board with a soldering iron.
 - Remove two screws marked "•" and wires from both sides of the erase head "B" as shown in Figure 16, and it can be removed.
- (3) After finishing assembling, adjust head azimuth, height and tilt angle.
 - Apply screw-lock after adjustment.

Replacement of Belt and Flywheel

- (1) Remove a screw marked " " and the motor bracket, and two belts can be removed as shown in Figure 17.
- (2) Remove one washer marked "△" as shown in Figure 19 and the flywheel can be removed.
- (3) After replacing the belt and flywheel, clean them with absolute alcohol.
- (4) After finishing assembling, confirm tape speed and wow/flutter with test tape (MTT-111).

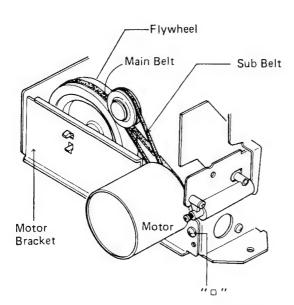


Figure 17

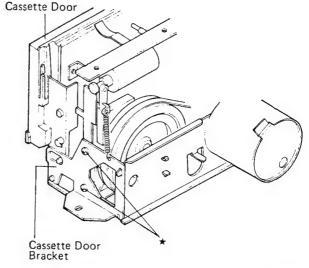
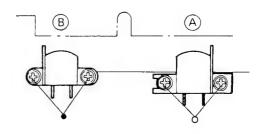


Figure 15



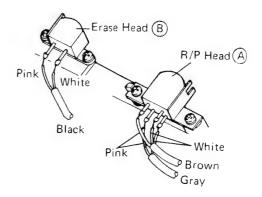


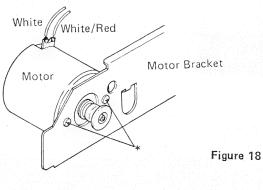
Figure 16

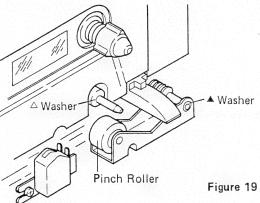
Replacement of Motor

- (1) Remove a screw marked "□" as shown in Figure 17 and two screws marked "*" and two wires (white, white/red) from motor side as shown in Figure 18, and the motor can be removed.
- (2) After finishing assembling, confirm tape speed and wow/flutter with test tape (MTT-111).

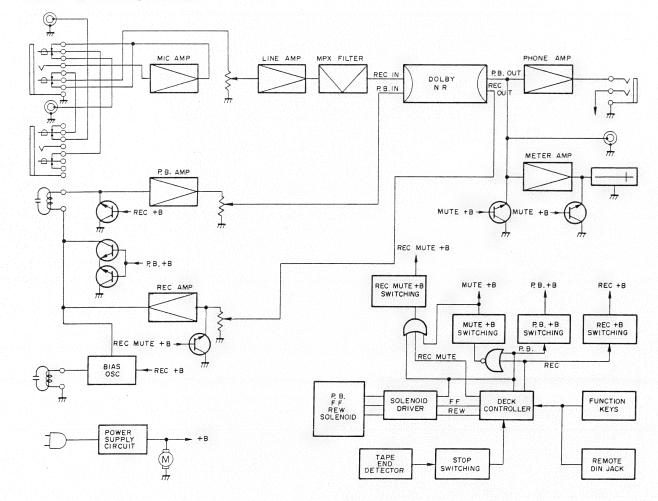
Replacement of Pinch Roller

- (1) Remove a washer marked "▲" to take off pinch roller assembly from the cassette deck as shown in Figure 19.
- (2) After replacing the pinch roller, clean it with absolute alcohol.
- (3) After finishing assembling, confirm tape speed and wow/flutter with test tape (MTT-111).



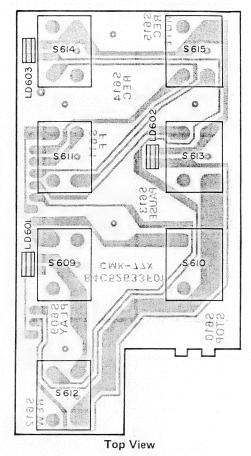


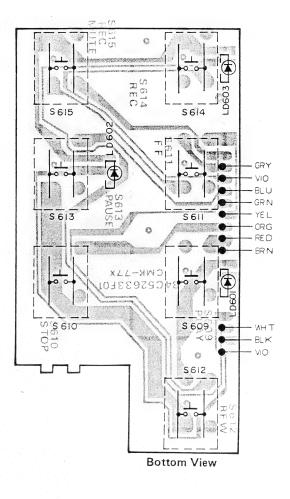
Block Diagram



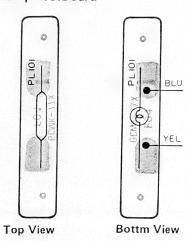
Parts Layout on P.C. Boards

Keyboard Switch P.C.Board

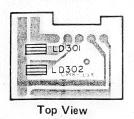


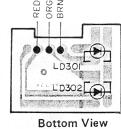


Lamp P.C.Board

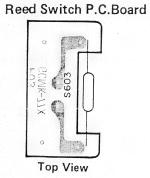


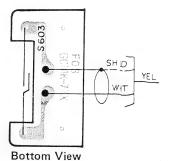
LED P.C.Board





강마를 통합하는 경기를 받는 것이 되었다. 강하다 하고 일본 사람들은 것이 되었다.

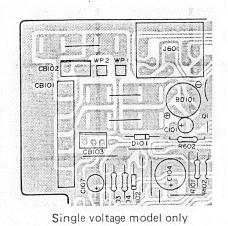


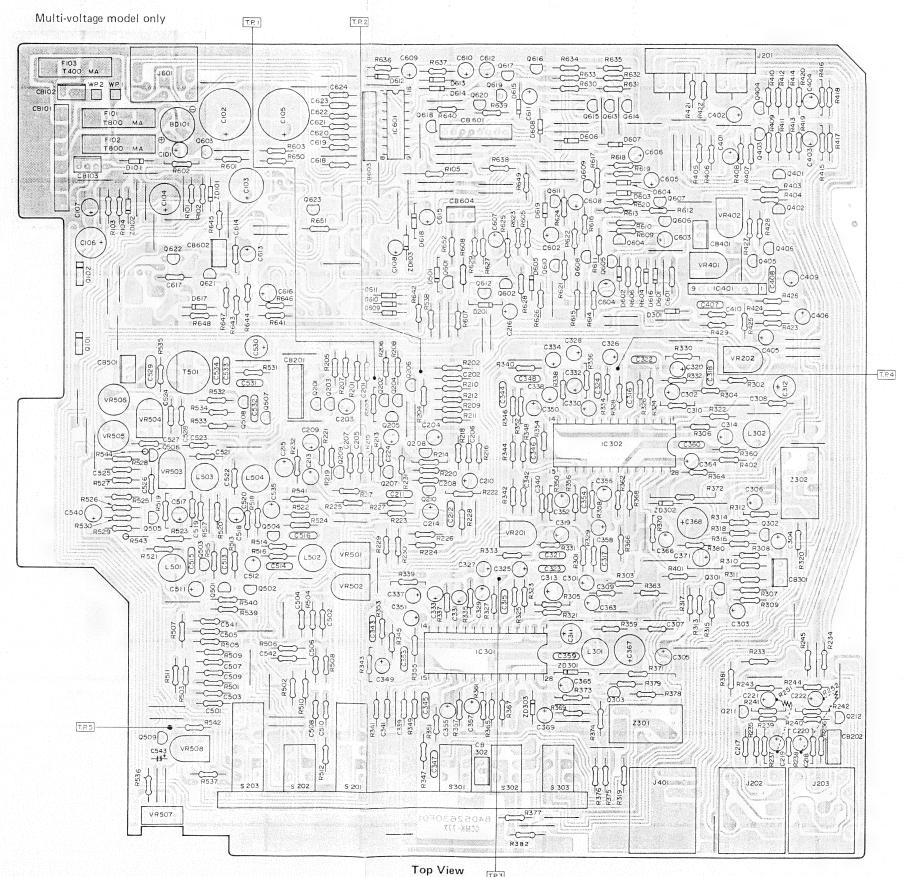


- 13 -

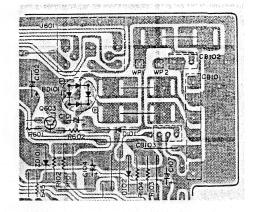
- 14 -

Master P.C. Board



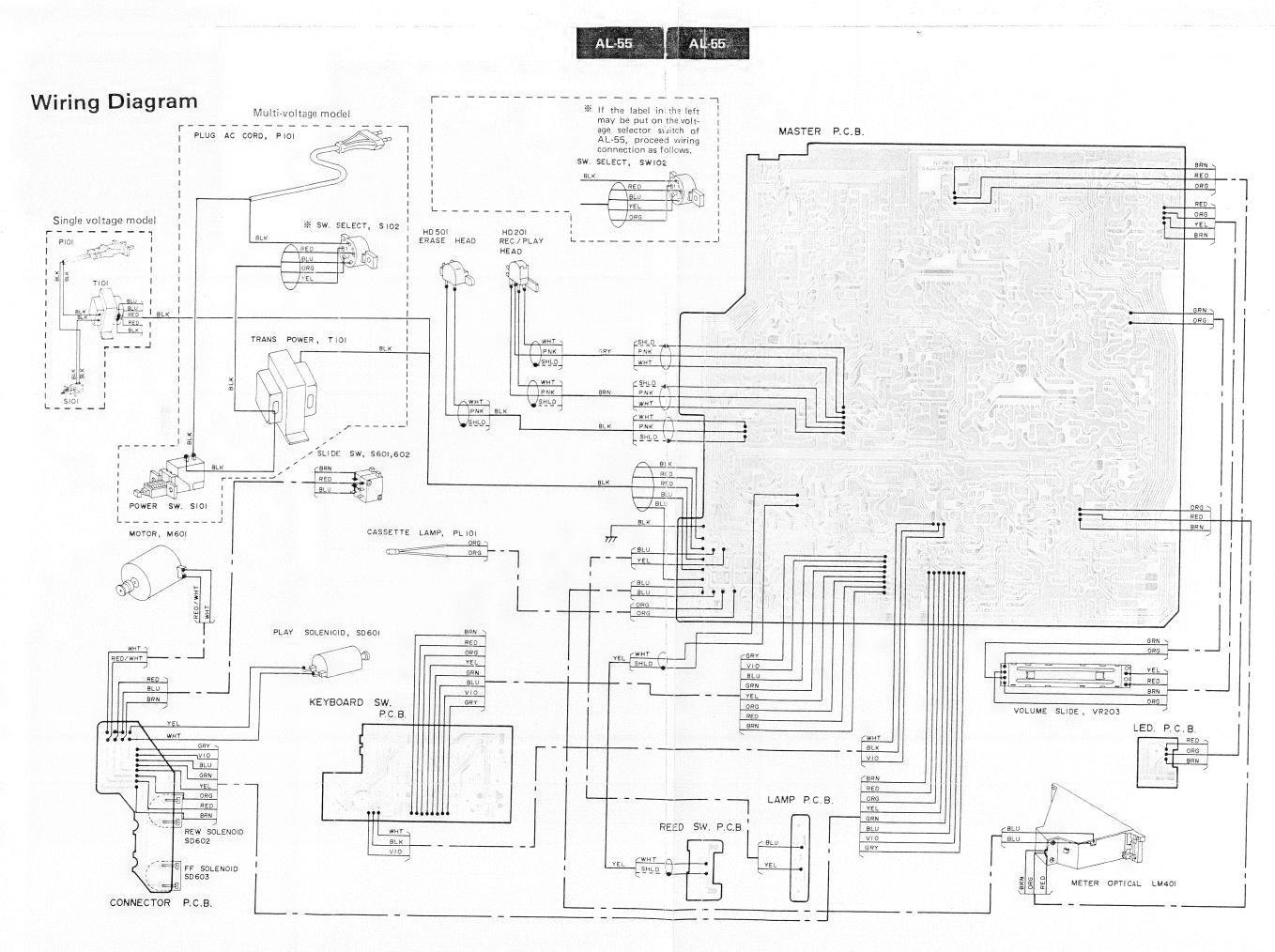


Single voltage model only

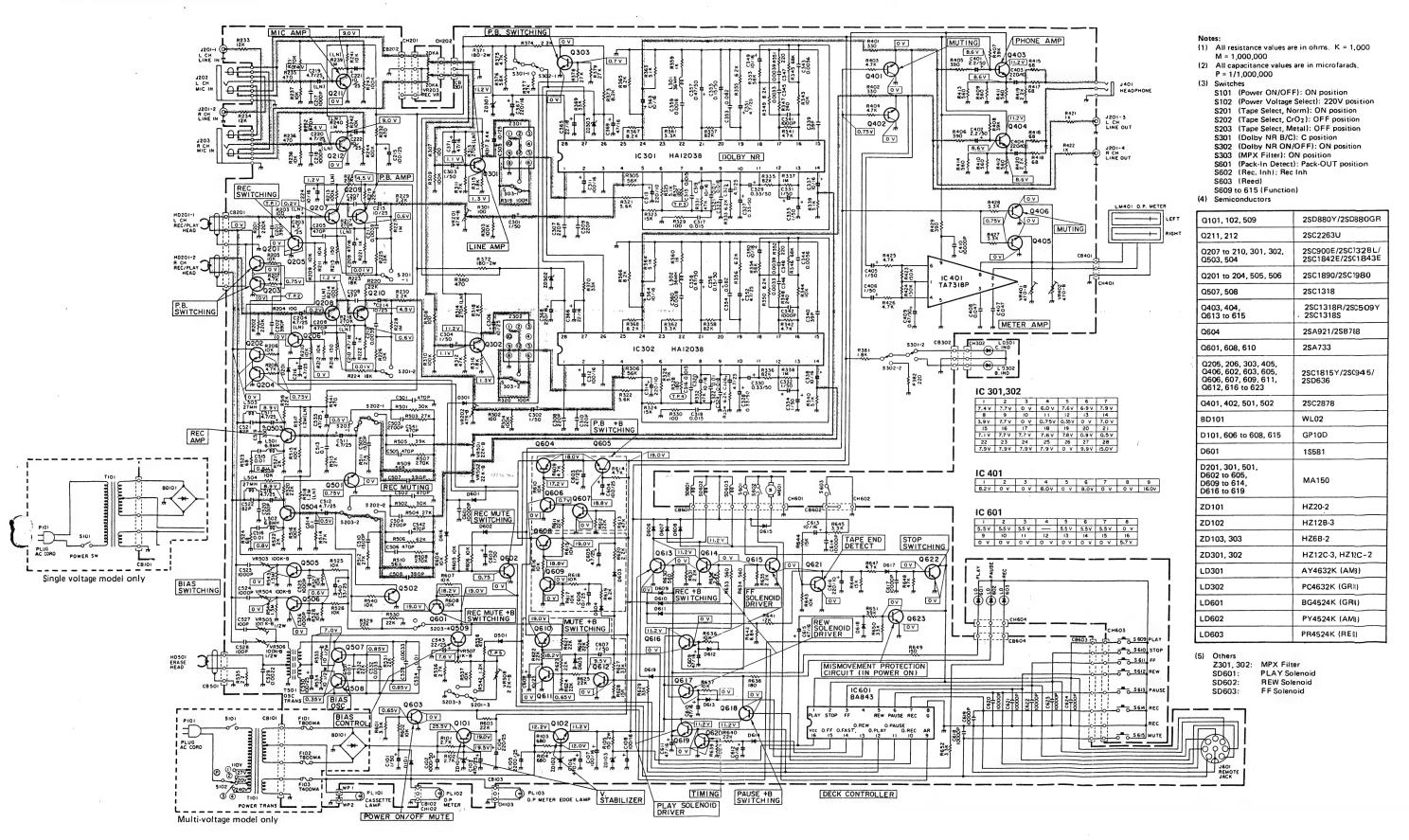


T.P.5

Bottom View



Schematic Diagram



Electrical Parts List

Resistors (All resistors are carbon film, %W, $\pm5\%$ unless otherwise noted.) uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description					
Master P.C. Board Assembly							
IC's							
IC301	51T52160F01	HA12038-01					
IC302	51T52160F01	HA12038-01					
IC401	51T41803U01	TA7318AP-2					
IC601	51S47110F01	BA843					
Trans	I	Lannon V					
Q101	48T42620F02	2SD880-Y					
or 0102	48T42620F03	2SD880-GR 2SD880-Y					
Q102	48T42620F02	2SD880-Y 2SD880-GR					
or Q201	48T42620F03 48S41196U03	2SC1980-T					
or	48S43394P01	2SC1890-E.F					
OI .	48343334101	2001000 2.1					
Q202	41S41196U03	2SC1980-T					
or	48S43394P01	2SC1890-E.F					
Q203	48S41196U03	2SC1980-T					
or	48S43394P01	2SC1890-E.F					
Q204	48S41196U03	2SC1980-T					
or	48S43394P01	2SC1890-E.F					
Q205	48S43525F02	2SC1815-Y					
or	48S44578J01	2SC945L-P					
or	48S40627U01	2SD636-Q					
0206	48S43525F02	2SC1815-Y					
or	48S44578J01	2SC945L-P					
or	48S40627U01	2SD636-Q					
Q207	48S40246G01	2SC732-BL					
or	48S40149P01	2SC900-E					
or	48S47708F04	2SC1842-E					
or	48S47706F04	2SC1843-E					
0208	48S40246G01	2SC732-BL					
or	48S40149P01	2SC900-E					
or	48S47708F04	2SC1842-E					
or	48S47706F04	2SC1843-E					
0209	48S40246G01	2SC732-BL					
or	48S40149P01	2SC900-E					
or	48S47708F04	2SC1842-E					
or	48S47706F04	2SC1843-E					

Symbol No.	Part No.	Description
Q210	48S40246G01	2SC732-BL
or	48S40149P01	2SC900-E
or	48S47708F04	2SC1842-E
or	48S47706F04	2SC1843-E
Q211	48T41195U04	2SC2263-U
Q212	48T41195U04	2SC2263-U
Q301	48S40246G01	2SC732-BL
or	48S40149P01	2SC900-E
or	48S47708F04	2SC1842-E
or	48S47706F04	2SC1843-E
Q302	48S40246G01	2SC732-BL
or	48S40149P01	2SC900-E
or	48S47708F04	2SC1842-E
or	48S47706F04	2SC1843-E
O303	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q401	48T51878F01	2SC2878-A.B
Q402	48T51878F01	2SC2878-A.B
Q403	48S40832F04	2SC1318NC-S
or	48S40832F03	2SC1318NC-R
or	48S43239G02	2SC509-Y
Q404	48S40832F04	2SC1318NC-S
or	48S40832F03	2SC1318NC-R
or	48S43239G02	2SC509-Y
Q405	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q406	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q501	48T51878F01	2SC2878-A.B
Q502	48T51878F01	2SC2878-A.B
0503	48S40246G01	2SC732-BL
Q503		
or	48S40149P01	2SC900-E
or	48S47708F04	2SC1842-E
or OF04	48S47706F04	2SC1843-E
Q504	48S40246G01	2SC732-BL
or	48S40149P01	2SC900-E
or	48S47708F04	2SC1842-E
or	48S47706F04	2SC1843-E

Symbol No.	Part No.	Description
Q505	48S41196U03	2SC1980-T
or	48S43394P01	2SC1890-E.F
Ω506	48S41196U03	2SC1980-T
or	48S43394P01	2SC1890-E.F
Q507	48S40832F03	2SC1318NC-R
2007		
Q508	48S40832F03	2SC1318NC-R
Q509	48T42620F02	2SD880-Y
or	48T42620F03	2SD880-GR
Q601	48T40081T03	2SA733-P
Q602	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q603	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q604	48T44763F01	2SB788-S
or	48T44763F02	2SB788-T
or	48T42941U01	2SA921-S
or	48T42941U02	2SA921-T
Q605	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q606	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q607	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
0.555	4074000:	0047000
Q608	48T40081T03	2SA733-P
Q609	48S43525F02	2SC1815-Y
or	48\$44578J01	2SC945L-P
or	48S40627U01	2SD636-Q
Q610	48T40081T03	2SA733-P
0044	40040505500	2001915 V
Ω611	48S43525F02	2SC1815-Y
or	48S44578J01	2SC945L-P
or Oc12	48S40627U01	2SD636-Q
Q612	48S43525F02	2SC1815-Y
or	48S44578J01 48S40627U01	2SC945L-P 2SD636-Q
or	4004002/001	230030-0
Q613	48S40832F04	2SC1318NC-S
or	48S40832F03	2SC1318NC-R
or	48S43239G02	2SC509-Y
Q614	48S40832F04	2SC1318NC-S
or	48S40832F03	2SC1318NC-R
or	48S43239G02	2SC509-Y
	L	

	Symbol No.	Part No.	Description
	Q615	48S40832F04	2SC1318NC-S
	or	48S40832F03 2SC1318NC-R	
	or	48S43239G02	2SC509-Y
	Q616	48S43525F02	2SC1815-Y
	or	48S44578J01	2SC945L-P
	or	48S40627U01	2SD636-Q
	Q617	48S43525F02	2SC1815-Y
	or	48S44578J01	2SC945L-P
	or	48S40627U01	2SD636-Q
	Q618	48S43525F02	2SC1815-Y
	or	48S44578J01	2SC945L-P
	or	48S40627U01	2SD636-Q
	Q619	48S43525F02	2SC1815-Y
	or	48S44578J01	2SC945L-P
	or	48S40627U01	2SD636-Q
	Q620	48S43525F02	2SC1815-Y
١	or	48S44578J01	2SC945L-P
	or	48S40627U01	2SD636-Q
	0.		202000
	Q621	48S43525F02	2SC1815-Y
	or or	48S44578J01	2SC945L-P
١	or	48S40627U01	2SD636-Q
١	Q622	48S43525F02	2SC1815-Y
	or	48S44578J01	2SC945L-P
١	or	48S40627U01	2SD636-Q
1	0.	4001002.00.	200000 0
	Q623	48S43525F02	2SC1815-Y
	or	48S44578J01	2SC945L-P
1	or	48S40627U01	2SD636-Q
1	Diode		
-		-	
	D101	48T55186F01	GP10D
-	D201	48T51582F01	MA-150
1	or	48T51881F01	DS442-BT
١	D301	48T51582F01	MA-150
	or	48T51881F01	DS442-BT
1	2504	10771100501	
١	D501	48T51582F01	MA-150
١	or	48T51881F01	DS442-BT
١	D601	48T53429F01	1SS81
1	D602	48T51582F01	MA-150
	or	48T51881F01	DS442-BT
	D603	48T51582F01	MA-150
-		48T51881F01	DS442-BT
1	or Den4		· · - - ·
	D604	48T51582F01	MA-150 DS442 BT
1	or	48T51881F01	DS442-BT
-	D605	48T51582F01	MA-150
L	or	48T51881F01	DS442-BT

Symbol No.	Part No.	Description
D606	48T55186F01	GP10D
D607	48T55186F01	GP10D
D608	48T55186F01	GP10D
D609	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D610	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D611	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D612	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D613	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D614	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D615	48T55186F01	GP10D
D616	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D617	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D618	48T51582F01	MA-150
or	48T51881F01	DS442-BT
D619	48T51582F01	MA-150
or	48T51881F01	DS442-BT
ZD101	48T52739F86	Zener HZ20-2
ZD102	48T52739F75	Zener HZ12B-3
ZD103	48T52739F38	Zener HZ6B-2
ZD301	48T52740F08	Zener HZ12C-2
or	48T52740F09	Zener HZ12C-3
ZD302	48T52740F08	Zener HZ12C-2
or	48T52740F09	Zener HZ12C-3
ZD303	48T52739F38	Zener HZ6B-2
BD101	48T50629F01	Bridge WL-02
Fuse	s & Filter	
• F101	65T42077U15	Fuse, 800 mA
• F102	65T42077U15	Fuse, 800 mA
• F103	65T42077U12	Fuse, 400 mA
Z301	51T42537U01	Filter, MPX LP-V20
Z302	51T42537U01	Filter, MPX LP-V20
		1

Symbol No.	Part No.	Des	scription			
Capacitors						
C101 C102	23S40657F28 23S41198U67	Electrolytic Electrolytic	1 μF/50V 1000 μF/50V			
C103	23S41198U57	Electrolytic	470 μF/25V			
C104	23S41198U42	Electrolytic	220 μF/25V			
C105	23S41198U72	Electrolytic	2200 μF/25V			
C106	23S41198U56	Electrolytic	470 μF/16V			
C107	23S40657F14	Electrolytic	100 μF/16V			
C108	23S40657F14	Electrolytic	100 μF/16V			
C201	8S44505P44	Ceramic	390 pF			
C202	8S44505P44	Ceramic	390 pF			
C203	23T42478F09	Electrolytic	4.7 μF/25V			
C204	23T42478F09	Electrolytic	4.7 μF/25V			
C205	8S44505P45	Ceramic	470 pF			
C206	8S44505P45	Ceramic	470 pF			
C207	8S44505P29	Ceramic	47 pF			
C208	8S44505P29	Ceramic	47 pF			
C209	23S40657F13	Electrolytic				
C210	23S40657F13	Electrolytic	•			
C211	8S40656F08	Mylar (
C212	8S40656F08	Mylar ().0039 μF			
C213	23S40657F17	Electrolytic	10 μF/25V			
C214	23S40657F17	Electrolytic	10 μF/25V			
C215	23S40657F21	Electrolytic	100 μF/25V			
C216	23S40657F16	Electrolytic	4.7 μF/25V			
C217	8S44505P49	Ceramic	1000 pF			
C218	8S44505P49	Ceramic	1000 pF			
C219	23T42478F09	Electrolytic	4.7 μF/25V			
C220	23T42478F09	Electrolytic	4.7 μF/25V			
C221	23S40657F17	Electrolytic	10 μF/25V			
C222	23S40657F17	Electrolytic	10 μF/25V			
C224	23S40657F10	Electrolytic	10 μF/16V			
C301	23S40657F28	Electrolytic	1 μF/50V			
C302	23S40657F28	Electrolytic	1 μF/50V			
C303	23S40657F28	Electrolytic	1 μF/5 O V			
C304	23S40657F28	Electrolytic	1 μF/5 O V			
C305	23S40657F17	Electrolytic	10 μF/25 V			
C306	23S40657F17	Electrolytic	10 μF/25 V			
C307	8S44505P41	Ceramic	220 pF			
C308	8S44505P41	Ceramic	220 pF			

^{•:} For multi-voltage model only

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C309	8S44505P41	Ceramic 220 pF	C356	23T42478F19	Electrolytic 0.15 μF/50
C310	8S44505P41	Ceramic 220 pF	C357	23S40657F27	Electrolytic 0.47 µF/50
C311	23S40657F14	Electrolytic 100 μF/16V	C358	23S40657F27	Electrolytic 0.47 µF/50
C312	23S40657F14	Electrolytic 100 μF/16V	C359	8S40656F04	Mylar 0.0018 μF
C313	23S40657F09	Electrolytic 220 μF/10V	C360	8S40656F04	Mylar 0.0018 μF
C314	23S40657F09	Electrolytic 220 μF/10V	C363	23S40657F10	Electrolytic 10 μF/16
C315	8S40656F15	Mylar 0.015 μF	C364	23S40657F10	Electrolytic 10 μF/16
C316	8S40656F15	Mylar 0.015 μF	C365	23S40657F11	Electrolytic 22 μF/16
C317	8S40656F15	Mylar 0.015 μF	C366	23S40657F11	Electrolytic 22 µF/16
C318	8S40656F15	Mylar 0.015 μF	C367	23S40657F52	Electrolytic 220 uF/16
C319	23S40657F10	Electrolytic 10 μF/16V	C368	23S40657F52	Electrolytic 220 uF/16
C320	23S40657F10	Electrolytic 10 μF/16V	C369	23S40657F13	Electrolytic 47 uF/16
C321	8S40656F13	Mylar 0.01 μF	C371	23S40657F13	Electrolytic 47 uF/16
C322	8S40656F13	Mylar 0.01 μF	C401	23S40657F29	Electrolytic 2.2 µF/50
C323	8S40656F16	Mylar 0.018 μF			2.12 pt. 700
			C402	23S40657F29	Electrolytic 2.2 µF/50
C324	8S40656F16	Mylar 0.018 μF	C403	23S40657F09	Electrolytic 220 µF/10
C325	23S40657F16	Electrolytic 4.7 µF/25V	C404	23S40657F09	Electrolytic 220 µF/10
C326	23S40657F16	Electrolytic 4.7 μF/25V	C405	23S40657F28	Electrolytic 1 µF/50
C327	23T42478F21	Electrolytic 0.33 μF/50V	C406	23S40657F28	Electrolytic $1 \mu F/50$
C328	23T42478F21	Electrolytic 0.33 µF/50V		255 15557 1 25	μι 700
			C407	8S40656F21	Mylar 0.047 μF
C329	23T42478F21	Electrolytic 0.33 μF/50V	C408	8S40656F21	Mylar 0.047 μF
C330	23T42478F21	Electrolytic 0.33 μF/50V	C409	23S40657F27	Electrolytic 0.47 µF/50
C331	23S40657F28	Electrolytic 1 μF/50V	C410	8S44505P61	Ceramic 10000 pF
C332	23S40657F28	Electrolytic 1 μF/50V	C501	8S44505P45	Ceramic 470 pF
C333	23S40657F28	Electrolytic 1 μF/50V			
	00040057500		C502	8S44505P45	Ceramic 470 pF
C334	23S40657F28	Electrolytic 1 μF/50V	C503	8S44505P54	Ceramic 2700 pF
C337	23S40657F10	Electrolytic 10 µF/16V	C504	8S44505P54	Ceramic 2700 pF
C338	23S40657F10	Electrolytic 10 µF/16V	C505	8S44505P45	Ceramic 470 pF
C339 C340	8S44505P27 8S44505P27	Ceramic 39 pF Ceramic 39 pF	C506	8S44505P45	Ceramic 470 pF
			C507	8S44505P44	Ceramic 390 pF
C341	8S44505P49	Ceramic 1000 pF	C508	8S44505P44	Ceramic 390 pF
C342	8\$44505P49	Ceramic 1000 pF	C509	8S44505P51	Ceramic 1500 pF
C343	8\$40656F10	Mylar 0.0056 μF	C510	8S44505P51	Ceramic 1500 pF
C344	8S40656F10	Mylar 0.0056 μF	C511	23S40657F16	Electrolytic 4.7 μ F/25\
C345	8S40656F07	Mylar 0.0033 μF	0546	000400000	FI . 1.1
00.45	0040050507		C512	23S40657F16	Electrolytic 4.7 μ F/25\
C346	8S40656F07	Mylar 0.0033 μF	C513	8S40656F25	Mylar 0.1 μF
C347	8S40656F08	Mylar 0.0039 μF	C514	8S40656F25	Mylar 0.1 μF
C348	8S40656F08	Mylar 0.0039 μF	C515	8S44505F13	Mylar $0.01 \mu F$
C349	23\$40657F10	Electrolytic 10 μF/16V	C516	8S44505F13	Mylar $0.01 \mu F$
C350	23S40657F10	Electrolytic 10 μF/16V	C517	23S40657F16	Electrolytic 4.7 μ F/25\
C351	23S40657F16	Electrolytic 4.7 μF/25V	C517	23S40657F16	Electrolytic 4.7 μ F/25 V
C352	23S40657F16	Electrolytic 4.7 µF/25V	C519	8S44505P43	Ceramic 330 pF
C353	8S40656F24	Mylar 0.082 μF	C520	8S44505P43	Ceramic 330 pF
C354	8S40656F24	Mylar 0.082 μF	C520	8S44505P35	Ceramic 82 pF
C355	23T42478F19	Electrolytic 0.15 µF/50V	0321	0044000130	ocianno oz pr
0000	201424/0113	εισστιστγίας 0.15 με/50 V			

Symbol No.	Part No.	Description	
C522	8S44505P35	Ceramic 82 pF	Ì
C523	8S44505P49	Ceramic 1000 pF	ŀ
	8S44505P49	Ceramic 1000 pF	1
C524	8S44505P49	Ceramic 1000 pF	
C525	8S44505P49	Ceramic 1000 PF	
C526	8544505F49	Ceramic 100011	
C527	8S44505P37	Ceramic 100 pF	
C527	8S44505P37	Ceramic 100 pF	
C529	8T52448F21	Polypropylene 0.0022 μF	
C530	23S40657F21	Electrolytic 100 µF/25V	
C530	8S40656F13	Mylar 0.01 μF	
Cosi	03400301 10	Myriai Sist pi	
C532	8S40656F07	Mylar 0.0033 μF	
C533	8S40656F07	Mylar 0.0033 μF	
C534	8S40656F13	Mylar 0.01 μF	
C535	23S40657F20	Electrolytic 47 µF/25V	
C540	23S40657F19	Electrolytic 33 µF/25V	
33.3			
C541	8S44505P45	Ceramic 470 pF	
C542	8S44505P45	Ceramic 470 pF	
C543	23S40657F18	Electrolytic 22 µF/25V	
C601	8S44505P61	Ceramic 10000 pF	
C602	23S40657F28	Electrolytic 1 µF/50V	
C603	23S40657F16	Electrolytic 4.7 μF/25V	
C604	23S40657F21	Electrolytic 100 μF/25V	
C605	23S40657F16	Electrolytic 4.7 μF/25V	
C606	23S40657F17	Electrolytic 10 uF/25V	
C607	23S40657F28	Electrolytic 1 μF/50V	
C608	23S40657F17	Electrolytic 10 μF/25V	
C609	23S40657F13	Electrolytic 47 μF/16V	
C610	23S40657F13	Electrolytic 47 μF/16V	
C611	23S40657F13	Electrolytic 47 μF/16V	
C612	23S40657F10	Electrolytic 10 μF/16V	
C613	23S40657F10	Electrolytic 10 μF/16V	
C614	8S44505P61	Ceramic 10000 pF	
C615	23S40657F13	Electrolytic 47 uF/16V	
C616	23S40657F09	Electrolytic 220 μF/10V	
C617	8S44505P61	Ceramic 10000 pF	
C618	8S44505P61	Ceramic 10000 pF	
C619	8S44505P61	Ceramic 10000 pF	
C620	8S44505P61	Ceramic 10000 pF	
C621	8S44505P61	Ceramic 10000 pF	
C622	8S44505P61	Ceramic 10000 pF	
C623	8S40656F25	Mylar 0.1 μF	
C624	8S44505P61	Ceramic 10000 pF	
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l			

Symbol No.	Part No.	Des	cription
Resistor	rs		
R101	6S44593P75		2.7K ohm
R102	6S44593P75		2.7K ohm
R103	6S44593P61		680 ohm
R104	6S44593P61		680 ohm
R105	6T51108F19	Metal Film	150 ohm 2W
R201	6S44594P22		220K ohm
R202	6S44594P22		220K ohm
R203	6S44593P41		100 ohm
R204	6S44593P41		100 ohm
R205	6S44593P89		10K ohm
R206	6S44593P89		10K ohm
R207	6S44593P81		4.7K ohm
R208	6S44593P81		4.7K ohm
R209	6S44593P89		10K ohm
R210	6S44593P89		10K ohm
R211	6S44593P89		10K ohm
R212	6S44593P89		10K ohm
R213	6S40106T14		100K ohm
R214	6S40106T14		100K ohm
R215	6S44593P45		150 ohm
R216	6S44593P45		150 ohm
R217	6S40106T24		270K ohm
R218	6S40106T24		270K ohm
R219	6S44593P97		22K ohm
R220	6S44593P97		22K ohm
R221	6S44593P65		1K ohm
R222	6S44593P65		1K ohm
R223	6S44593P95		18K ohm
R224	6S44593P95		18K ohm
R225	6S44593P92		13K ohm
R226	6S44593P92		13K ohm
R227	6S44594P38		1M ohm
R228	6S44594P38		1M ohm
R229	6S44593P73		2.2K ohm
R230	6S44593P73		2.2K ohm
R231	6S44593P99		27K ohm
R232	6S44593P57		470 ohm
R233	6S44593P91		12K ohm
R234	6S44593P91		12K ohm
R235	6S44593P57		470 ohm
R236	6S44593P57		470 ohm
R237	6S44593P89		10K ohm
R238	6S44593P89		10K ohm
R239	6S44594P38		1M ohm
R240	6S44594P38		1M ohm

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R241	6S44593P89	10K ohm	R331	6S44594P06	47K ohm
R242	6S44593P89	10K ohm	R332	6S44594P06	47K ohm
R243	6S40106T14	100K ohm	R333	6S44593P84	6.2K ohm
R244	6S40106T14	100K ohm	R334	6S44593P84	6.2K ohm
R251	6S41801P64	470K ohm	R335	6S44594P12	82K ohm
R252	6S41801P64	470K ohm		0011004112	821 011111
			R336	6S44594P12	82K ohm
R301	6S44593P41	100 ohm	R337	6S44594P38	1M ohm
R302	6S44593P41	100 ohm	R338	6S44594P38	1M ohm
R303	6S44594P14	100K ohm	R339	6S44593P82	5.1K ohm
R304	6S44594P14	100K ohm	R340	6S44593P82	5.1K ohm
R305	6S44594P08	56K ohm	'''	00445551 02	3.1K 01111
			R341	6S44593P81	4.7K ohm
R306	6S44594P08	56K ohm	R342	6S44593P81	4.7K ohm
R307	6S44593P41	100 ohm	R343	6S44593P89	10K ohm
R308	6S44593P41	100 ohm	R344	6S44593P89	10K ohm
R309	6S44594P14	100K ohm	R345	1	
R310	6S44594P14	100K ohm	11345	6S44594P10	68K ohm
		;	R346	6S44594P10	68K ohm
R311	6S44594P06	47K ohm	R347	6S44593P50	240 ohm
R312	6S44594P06	47K ohm	R348		240 ohm
R313	6S40106T24	270K ohm	R349	6S44593P50	8.2K ohm
R314	6S40106T24	270K ohm		6S44593P87	
R315	6S44593P71	1.8K ohm	R350	6S44593P87	8.2K ohm
11313	0344593771	1.88 01111	R351	6644500040	220 ohm
R316	6S44593P71	1.8K ohm	R352	6S44593P49	220 ohm
R317		2.4K ohm	1 1	6S44593P49	
	6S44593P74		R353	6S44594P08	56K ohm
R318	6S44593P74	2.4K ohm	R354	6S44594P08	56K ohm
R319 R320	6S44594P14	100K ohm	R355	6S44593P84	6.2K ohm
N320	6S44594P14	100K ohm	R356	0044500004	6.2K ohm
R321	6S44593P83	5.6K ohm	1 1	6S44593P84	
R322		5.6K ohm	R357	6S44594P12	82K ohm
	6S44593P83		R358	6S44594P12	82K ohm
R323	6S44593P93	15K ohm	R359	6S44593P65	1K ohm
R324	6S44593P93	15K ohm	R360	6S44593P65	1K ohm
R325	6S44593P82	5.1K ohm	R361	6044500077	2.21/
Dage	CC44E02D02	E 1V above	1 1	6S44593P77	3.3K ohm
R326	6S44593P82	5.1K ohm	R362	6S44593P77	3.3K ohm
R327	6S44593P47	180 ohm	R363	6S44593P82	5.1K ohm
R328	6S44593P47	180 ohm	R364	6S44593P82	5.1K ohm
R329	6S44593P41	100 ohm	R365	6S44593P87	8.2K ohm
R330	6S44593P41	100 ohm	5000		0.0%
D221	SCAAE03B03	5.6K ohm	R366	6S44593P87	8.2K ohm
R321	6S44593P83		R367	6S44593P87	8.2K ohm
R322	6S44593P83	5.6K ohm	R368	6S44593P87	8.2K ohm
R323	6S44593P93	15K ohm	R369	6S44594P02	33K ohm
R324	6S44593P93	15K ohm	R370	6S44594P02	33K ohm
R325	6S44593P82	5.1K ohm			
D.000	CCAAFOODOO	F 11/2 - L -	R371	6T51108F21	Metal Film 180 ohm 2/V
R326	6S44593P82	5.1K ohm	R372	6T51108F21	Metal Film 180 ohm 2/V
R327	6S44593P47	180 ohm	R373	6S44593P87	8.2K ohm
R328	6S44593P47	180 ohm	R374	6S44593P73	2.2K ohm
R329	6S44593P41	100 ohm	R375	6S44593P81	4.7K ohm
R330	6S44593P41	100 ohm			

R376 6S44593P83 5.6K ohm R377 6S44594P06 47K ohm R378 6S44593P99 27K ohm R379 6S44593P99 27K ohm R390 6S44593P971 470 ohm R381 6S44593P49 220 ohm R382 6S44593P53 330 ohm R402 6S44593P53 330 ohm R402 6S44593P53 330 ohm R403 6S44593P51 4.7K ohm R406 6S44593P55 390 ohm R407 6S44593P55 390 ohm R408 6S44593P55 390 ohm R409 6S44593P59 560 ohm R410 6S44593P59 560 ohm R411 6S44593P59 560 ohm R412 6S44593P59 560 ohm R411 6S44593P37 68 ohm R412 6S44593P37 68 ohm R416 6S44593P37 68 ohm R417 6S44593P3 2.2K ohm R420 6S44593P3		Symbol No.	Part No.	Description	
R377 6S44594P06 47K ohm R378 6S44593P99 27K ohm R379 6S44593P57 27K ohm R380 6S44593P57 470 ohm R381 6S44593P49 220 ohm R401 6S44593P53 330 ohm R402 6S44593P53 330 ohm R403 6S44593P81 4.7K ohm R404 6S44593P55 390 ohm R406 6S44593P55 390 ohm R407 6S44593P55 390 ohm R408 6S44593P59 560 ohm R410 6S44593P59 560 ohm R411 6S44593P59 560 ohm R411 6S44593P59 560 ohm R412 6S44593P59 560 ohm R413 6S44593P59 560 ohm R414 6S44593P59 560 ohm R415 6S44593P37 68 ohm R416 6S44593P37 68 ohm R417 6S44593P37 2.2K ohm R420 6S44593P3 2.2K ohm R421 6S44593P3 4.7K ohm	Ì	R376	6S44593P83	5.6K ohm	F
R378 6S44593P99 27K ohm R379 6S44593P97 27K ohm R380 6S44593P57 470 ohm R381 6S44593P49 220 ohm R401 6S44593P53 330 ohm R402 6S44593P53 330 ohm R403 6S44593P81 4.7K ohm R404 6S44593P81 4.7K ohm R405 6S44593P55 390 ohm R406 6S44593P55 390 ohm R407 6S44593P59 39K ohm R408 6S44593P59 560 ohm R410 6S44593P59 560 ohm R411 6S44593P59 560 ohm R412 6S44593P59 560 ohm R413 6S44593P59 560 ohm R414 6S44593P59 560 ohm R415 6S44593P37 68 ohm R416 6S44593P37 68 ohm R417 6S44593P37 68 ohm R419 6S44593P37 768 ohm R420 6S44593P3 2.2K ohm R421 6S44593P3 1K ohm	l			47K ohm	
R379 6S44593P99 27K ohm R380 6S44593P57 470 ohm R381 6S44593P57 470 ohm R382 6S44593P53 330 ohm R401 6S44593P53 330 ohm R402 6S44593P53 330 ohm R403 6S44593P51 4.7K ohm R405 6S44593P55 390 ohm R406 6S44593P55 390 ohm R407 6S44594P04 39K ohm R408 6S44593P59 560 ohm R410 6S44593P59 560 ohm R411 6S44593P59 560 ohm R412 6S44593P59 560 ohm R413 6S44593P59 560 ohm R414 6S44593P59 560 ohm R415 6S44593P59 68 ohm R416 6S44593P37 68 ohm R417 6S44593P37 68 ohm R418 6S44593P37 68 ohm R420 6S44593P3 2.2K ohm R421 6S44593P3 1K ohm R422 6S44593P81 4.7K ohm	١			27K ohm	
R380 6S44593P57 470 ohm R381 6S44593P71 1.8K ohm R382 6S44593P49 220 ohm R401 6S44593P53 330 ohm R402 6S44593P53 330 ohm R403 6S44593P81 4.7K ohm R404 6S44593P55 390 ohm R406 6S44593P55 390 ohm R407 6S44594P04 39K ohm R64459 6S44593P59 560 ohm R410 6S44593P59 560 ohm R411 6S44593P59 560 ohm R412 6S44593P59 560 ohm R413 6S44593P59 560 ohm R414 6S44593P59 560 ohm R415 6S44593P59 560 ohm R416 6S44593P59 68 ohm R417 6S44593P37 68 ohm R418 6S44593P37 68 ohm R419 6S44593P3 2.2K ohm R420 6S44593P3 1K ohm R421 6S44593P65 1K ohm R422 6S44593P81 4.7K ohm	١			27K ohm	
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R403 6S44593P81 R404 6S44593P81 R406 6S44593P55 R406 6S44593P55 R407 6S44594P04 R408 6S44593P59 R409 6S44593P59 R410 6S44593P59 R411 6S44593P59 R411 6S44593P59 R412 6S44593P59 R413 6S44593P59 R414 6S44593P59 R416 R415 6S44593P37 R416 R416 R418 R419 R419 R419 R419 R419 R419 R419 R419		R401	6S44593P53	330 ohm	
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R405 6S44593P55 390 ohm R406 6S44593P55 390 ohm R407 6S44594P04 39K ohm R408 6S44593P59 560 ohm R410 6S44593P59 560 ohm R411 6S44593P59 560 ohm R412 6S44593P59 560 ohm R413 6S44593P59 560 ohm R414 6S44593P59 560 ohm R415 6S44593P59 560 ohm R416 6S44593P37 68 ohm R417 6S44593P37 68 ohm R418 6S44593P37 68 ohm R419 6S44593P37 68 ohm R419 6S44593P37 108 ohm R420 6S44593P37 2.2K ohm R420 6S44593P31 2.2K ohm R421 6S44593P65 1K ohm R422 6S44593P65 1K ohm R423 6S44594P18 150K ohm R424 6S44594P18 150K ohm R425 6S44593P71 3.3K ohm R426 6S44593P71 3.3K ohm R427 6S44593P71 3.3K ohm R428 6S44593P71 3.3K ohm R429 6S44593P71 3.3K ohm R420 6S44593P71 3.3K ohm R421 6S44593P71 3.3K ohm R422 6S44593P71 3.3K ohm R426 6S44593P71 3.3K ohm R427 6S44593P71 3.3K ohm R428 6S44593P71 3.3K ohm R501 6S44593P91 30K ohm R502 6S44594P01 30K ohm R503 6S44594P01 30K ohm R504 6S44594P01 30K ohm R507 6S44594P01 30K ohm R507 6S44594P04 39K ohm R507 6S44594P04 39K ohm R507 6S44594P04 39K ohm R508 6S44594P04 39K ohm		R403	6S44593P81	4.7 K ohm	11
R406 R406 R407 R408 R407 R544593P55 R407 R408 R544594P04 R409 R544593P59 R410 R544593P59 R411 R5410 R544593P59 R560 ohm		R404	6S44593P81	4.7K ohm	
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R413 6S44593P59 560 ohm R414 6S44593P59 560 ohm R415 6S44593P59 560 ohm R416 6S44593P37 68 ohm R417 6S44593P37 68 ohm R418 6S44593P37 68 ohm R419 6S44593P73 2.2K ohm R420 6S44593P73 1K ohm R421 6S44593P65 1K ohm R422 6S44593P65 1K ohm R423 6S44594P18 150K ohm R424 6S44594P18 150K ohm R425 6S44593P81 4.7K ohm R426 6S44593P77 3.3K ohm R427 6S44593P77 3.3K ohm R428 6S44593P55 390 ohm R501 6S44594P01 30K ohm R502 6S44594P01 30K ohm R503 6S44594P01 30K ohm R504 6S44594P01 30K ohm R505 6S44594P04 39K ohm R506 6S44594P04 39K ohm R507 6S44594P04 39K ohm R508 6S44594P24 270K ohm R509 6S44594P08 56K ohm		R411	6S44593P59	560 ohm	1 1
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R426 6S44593P81 4.7K ohm R427 6S44593P77 3.3K ohm R428 6S44593P77 3.3K ohm R429 6S44593P55 390 ohm R501 6S44594P01 30K ohm R502 6S44594P01 30K ohm R503 6S44593P99 27K ohm R504 6S44593P99 27K ohm R505 6S44594P04 39K ohm R506 6S44594P04 39K ohm R507 6S44594P04 39K ohm R507 6S44594P04 270K ohm R508 6S44594P24 270K ohm R509 6S44594P08 56K ohm				4 71/2 -1	
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R502 6S44594P01 30K ohm R503 6S44593P99 27K ohm R504 6S44593P99 27K ohm R505 6S44594P04 39K ohm R506 6S44594P04 39K ohm R507 6S44594P24 270K ohm R508 6S44594P24 270K ohm R509 6S44594P08 56K ohm			0044504504	201 ohm	
R503 6S44593P99 27K ohm R504 6S44593P99 27K ohm R505 6S44594P04 39K ohm R506 6S44594P04 39K ohm R507 6S44594P24 270K ohm R508 6S44594P24 270K ohm R509 6S44594P08 56K ohm					
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R507 6S44594P24 270K ohm R508 6S44594P24 270K ohm R509 6S44594P08 56K ohm			CC44E04B04	39K ohm	
R508 6S44594P24 270K ohm R509 6S44594P08 56K ohm					İ
R509 6S44594P08 56K ohm					
11303 00440011 00					
K51U 6544594PU8 50K ONIII					
		R510	6544594708	50K 0HH	

Symbol	Part No.	Description
No.		
R511	6S44593P99	27K ohm
R512	6S44593P99	27K ohm
R513	6S44593P99	27K ohm
R514	6S44593P99	27K ohm
R515	6S44594P14	100K ohm
R516	6S44594P14	100K ohm
R517	6S40106T40	1.2M ohm
R518	6S40106T40	1.2M ohm
R519	6S44593P97	22K ohm
R520	6S44593P97	22K ohm
R521	6S44593P72	2K ohm
R522	6S44593P72	2K ohm
R523	6S44593P41	100 ohm
R524	6S44593P41	100 ohm
R525	6S44593P89	10K ohm
R526	6S44593P89	10K ohm
R527	6S44593P89	10K ohm
R528	6S44593P89	10K ohm
R529	6S44593P97	22K ohm
R530	6S44593P97	22K ohm
R531	6S44593P97	22K ohm
R532	6S44593P97	22K ohm
R533	6T55175F17	10 ohm 1/2W
R534	6T55175F17	10 ohm 1/2W
R535	6S44593P01	2.2 ohm
R536	6S44593P75	2.7K ohm
R537	6S44593P89	10K ohm
R538	6S44593P57	470 ohm
R539	6S44593P89	10K ohm
R540	6S44593P89	10K ohm
R541	6S44593P57	470 ohm
R542	6S44593P67	1.2K ohm
R543	6S41801P74	1.5M ohm
R544	6S41801P74	1.5M ohm
R601	6S44593P77	3.3K ohm
R602	6S44593P89	10K ohm
R603	6S44593P97	22K ohm
R604	6S44593P89	10K ohm
R605	6S44593P89	10K ohm
R606	6S44593P89	10K ohm
R607	6S44593P89	10K ohm
R608	6S44593P89	10K ohm
R609	6S44593P81	4.7K ohm
R610	6S44593P89	10K ohm
R611	6S44593P97	22K ohm

Symbol No.	Part No.	Description
R612	6S44593P97	22K ohm
R613	6S44594P06	47K ohm
R614	6S44593P81	4.7K ohm
R615	6S44593P89	10K ohm
R616	6S44593P89	10K ohm
,	001100000	TOK OIIII
R617	6S44593P89	10K ohm
R618	6S44593P89	10K ohm
R619	6S44593P87	8.2K ohm
R620	6S44593P73	2.2K ohm
R621	6S44593P97	22K ohm
R622	6S44593P97	22K ohm
R623	6S44593P97	22K ohm
R624	6S44593P97	22K ohm
R625	6S44593P97	
R626	6S44593P97	22K ohm
11020	0344593F97	22K ohm
R627	6S44594P02	33K ohm
R628	6S44593P93	15K ohm
R629	6S44594P02	33K ohm
R630	6S44593P59	560 ohm
R631	6S44593P73	2.2K ohm
R632	6S44593P73	2.2K ohm
R633	6S44593P59	560 ohm
R634	6S44593P59	560 ohm
R635	6S44593P73	2.2K ohm
R636	6S44593P89	10K ohm
D007	0044500000	1011
R637	6S44593P89	10K ohm
R638	6S44593P47	180 ohm
R639	6S44594P14	100K ohm
R640	6S44593P97	22K ohm
R641	6S44593P91	12K ohm
R642	6S44593P85	6.8K ohm
R643	6S44593P89	10K ohm
R644	6S44593P93	15K ohm
R645	6S44593P77	3.3K ohm
R646	6S44593P93	15K ohm
DEAT	6044502001	4.7V ab
R647	6S44593P81 6S44594P06	4.7K ohm
R648		47K ohm
R649	6S44593P45	150 ohm
R650	6S44594P02	33K ohm
R651	6S44594P04	39 K ohm
R652	6S44593P77	3.3K ohm

Symbol No.	Part No.	Description			
Plat	e, Jacks & Inducto	ors			
J201 J202 J203 J401 J601 L301 L302 L501 L502 L503 L504	9T50231F02 9T55174F02 9T55174F02 9T55174F12 9T50261F01 24T47741F01 24T47741F01 24S41449F02 24S41449F02 24S41449P01 24T444499P01	Plate, Phone 4P Jack, Microphone (6.5) Jack, Microphone (6.5) Jack, Headphone (6.5) Jack, DIN 8P (REMOTE) Inductor 36 mH Inductor 36 mH Inductor, Radial 6800 µH Inductor, Radial 6800 µH Inductor 27 mH Inductor 27 mH			
Transformer, Variable Resistors & Switches					
T501 VR201 VR202 VR401 VR402 VR501 VR502 VR503 VR504 VR505 VR508 S201 S202 S203 S301 S302 S303	25T52944F01 18T52946F17 18T52946F05 18T52946F05 18T52946F15 18T52946F15 18T52946F19 18T52946F19 18B44064J07 18B44064J07 18T52946F09	Trans, O.S.C. Variable 47K ohm Variable 47O ohm Variable 470 ohm Variable 22K ohm Variable 22K ohm Variable 100K ohm Variable 100K ohm Variable 100K ohm Variable 22K ohm Variable 22K ohm Variable 20K ohm Variable 100K ohm Variable 100K ohm 1/2W Variable 2.2K ohm Switch, (TAPE SELECT) (DOLBY NR)			
	Miscellaneous Parts				
HD201	F029-090	Assembly, Recording/-			
HD501 LD301 LD302 LD601	F030-052 48T45250F01 48T45249F01 48T51833F03	Playback Head Assembly, Erase Head LED AY4632K (YEL) LED PG4632KX (GRN) LED BG4524K (GRN)			

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
1 D602	48T51833F01	LED PY4524K (YEL)			
	48T51833F02	LED PR4524K (RED)			
LM401		Meter, Optical			
		(Included, PL102)			
M601	F064-074	Assembly, Motor			
●P101	28T43812P02	Plug, AC Cord			
■P101	28T40916U01	Plug, AC Cord			
	65C42544U04	Lamp, Pilot 14V – 50 mA			
PL103		Lamp, Pilot			
SD601		Solenoid, Play			
	PBC16062	Solenoid, REW			
SD603	PBC16062	Solenoid, F.F.			
• S101	40T45561F02	Switch, Power			
■ S101	40T47454F01	Switch, Power			
• S102	40T40705T01	Switch, Voltage Select			
S601	FE173-11	Switch, Slide (PACK INDET)			
\$602	FE173-11	Switch, Slide (REC INH)			
\$603	40T47104F01	Switch, Function (REED)			
\$609	40T44505F01	Switch, Function (PLAY)			
S610	40T44505F01	Switch, Function (STOP)			
S611	40T44505F01	Switch Function (F.F.)			
\$612	40T44505F01	Switch, Function (REW)			
\$613	40T44505F01	Switch, Function (PAUSE)			
S614	40T44505F01	Switch Function (REC)			
\$615	40T44505F01	Switch Function			
		(REC, MUTE)			
•T101	25T52676F01	Trans, Power			
■T101	25T53364F01	Trans, Power			
VR20	18T52629F01	Volume, Slide S60B2PA			
		20K ohm (REC LEVEL)			
V R50	18T52943F01	Volume, Rotary (BIAS)			
	·				

^{•:} For multi-voltage model only.
•: For single-voltage model only.

Cabinet Assembly Parts List

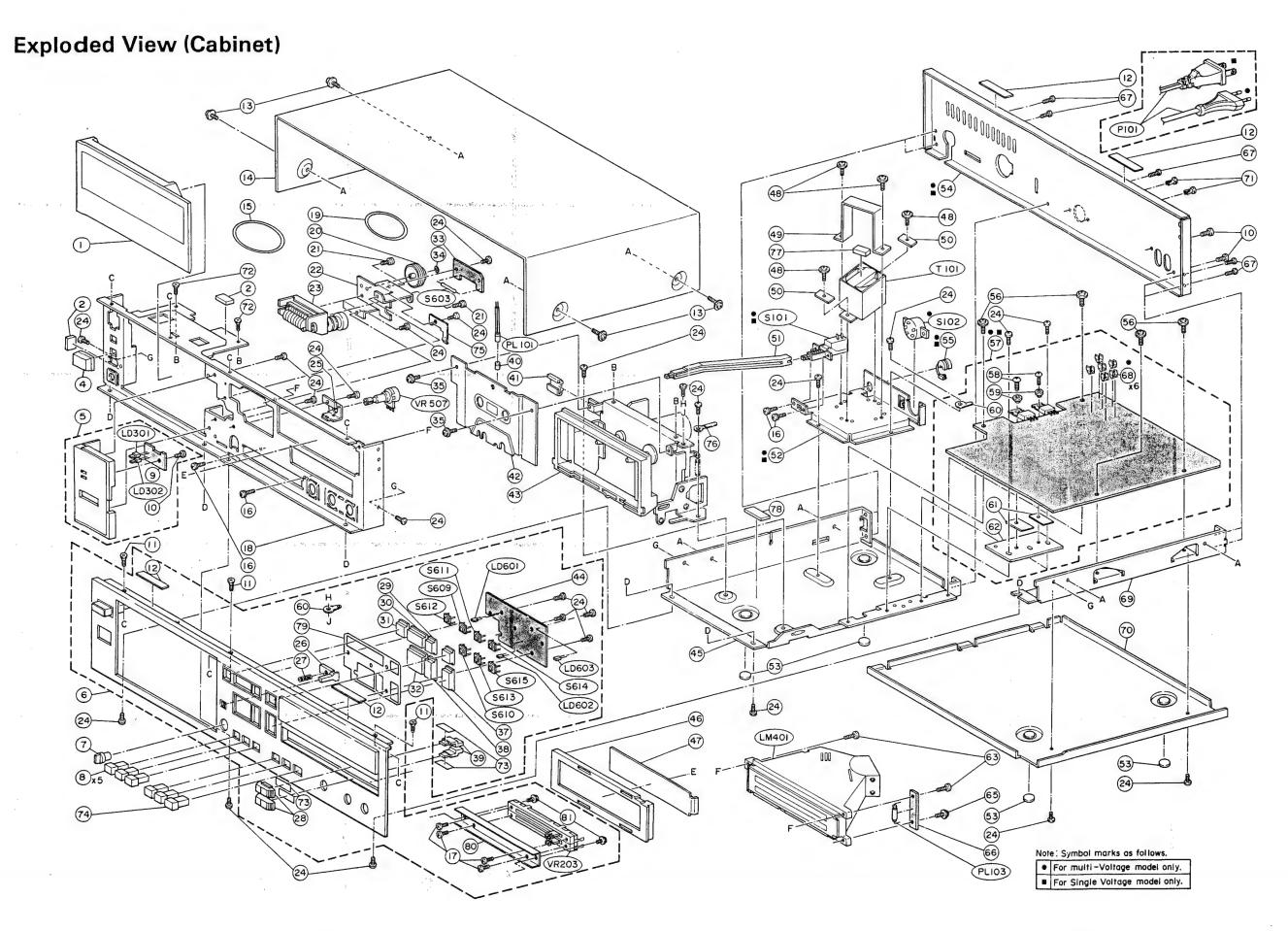
Symbol No.	ndex	Part No.	Description
		1V56300F02	Assembly Door
1	2-A	75A42565P15	Assembly, Door
2	2 1	36A45460F03	Cushion, Rubber Knob, Power
5		1V53900F32	
) ³	3-A	1753900132	Assembly, Counter Escutcheon
			Escutcheon
6	4-A	1V53900F39	Assembly, Front Panel
7	5-A	36A47129F03	Knob, Bias
8	5-A	36A52480F03	Knob, Push
9	3-A	*	Panel, LED
10		3S40012G41	Screw, Pan. (M3 x 8)
11		3S40012G26	Screw, Flat (M3 x 6)
12		75B44632G04	Pad, Cushion
13		3S40036U15	Screw, W/Washer (M4 x 8)
14	1-B		Cover, Top
15	2-B	-	Belt, Counter
"	2 5	427100011101	Boile, Counter
16		3C40014G04	Screw, W/Washer (M3 x 6)
17	3-B	3C40014G12	Screw, W/Washer (M2.6 x 4)
18	4-B	*	Chassis, Front
19	2-B	42A52623F02	Belt, Counter
20		49A52624F01	Pulley, Counter
21		3C40014G09	Screw, W/Washer (M3 x 5)
22	2-B	*	Bracket, Counter
23	2-B	72T52627F01	Counter, Tape
24	l .	3S40012G03	Screw, Round (M3 x 6)
25	2-B	**	Bracket, Bias Volume
26	4-B	36A52481F01	Knob, Counter
27	4-B	41A41324F03	Spring, Push
28	5-B	36A52479F01	Knob, Rec Level Volume
29	1	· ·	Knob, F.F.
30		36A52472F01	Knob, Play
31	4-C	36A52474F01	Knob, Rew
32	1	36A52476F01	Knob, Stop
33	1	30A32470101	Panel, Reed Switch
34	1		Washer, Lock (M1.7)
35		3S40036U03	Screw, Pan. (M3 x 6)
20	4-C	36A52475F01	Knob, Rec
36	1	36A52478F01	Knob, Rec Mute
	5-C	36A52477F01	Knob, Pause
39	1	43A52485F01	Spacer, Knob
40	1	43A41728U09	Bush, Lamp
		43A51937F01	Spacer, Eject
,	3-D		Assembly, Dust Cover
	3-D		Deck, Cassette (FL87E01A)
	3-D	%	Panel, Key Board
	4-D	*	Chassis, Bottom
45	4-E		C.143515, 55 (C)11

Symbol No.	Index	Part No.	Description
	5-E	7B52483F01	Frame, Meter
47	5-E	34A52482F01	Scale, Meter
48		3S40036U07	Screw, Pan. (M4 x 12)
49	2-E	*	Support, Trans (U)
50		7A40871F01	Support, Trans Washer
51	2-E	45B50395F01	Lever, Power Switch
• 52	3-E	*	Bracket, Trans
= 52		7B45445F02	Bracket, Trans
53		75A44348F01	Pad, Felt
1	1-F	15C52461F01	Cover, Rear
■ 54		15C52461F02	Cover, Rear
• 55	2-F	43B41625J02	Support, Cord
= 55		43B41625J01	Support, Cord
56	1	3C42723U01	Screw, Cup (M3 x 6)
● 57	2-F	1V53900F34	Assembly, Master Board
= 57		1V56900F06	Assembly, Master Board
58	2-G	3A43146G01	Screw, Truss (M2 x 6)
59	3-F	43A43182P01	Spacer, Transistor
60		29A41814G01	Lug
61	3-F	14A40472G02	Insulator, Transistor
62	3-F	*	Bracket, Heat Sink
63	5-G	3S44205G08	Screw, Pan (M3 x 12)
65	5-G	3S40018G01	Screw, Pan (M3 x 6)
66	5-G	84D52630F04	Panel, Lamp
67		3S44205G40	Screw, Bind (M3 x 4)
• 68	2-G	9T45548F01	Holder, Fuse
69	4-G	*	Chassis, Side
	4-G	*	Cover, Bottom
71	1-H	5B41635J02	Rivet, Push
72		3S44205G16	Screw, Flat (M3 × 6)
73		75B44632G17	Pad, Cushion
74	5-A	36A52480F02	Knob, Push
	2-C		Spring, Knob
76	3-E	29C41045P02	Lug, Wrap Alound
77	2-E	75A42565P16	Cushion, Rubber
78	4-E	75A42565P14	Cushion
79		26A56263F01	Shield, Static
80		7A52465F01	Bkt., Slide VR
81		3S40018G02	Screw, Pan (M3 x 8)

^{*} Parts without part number are not supplied.

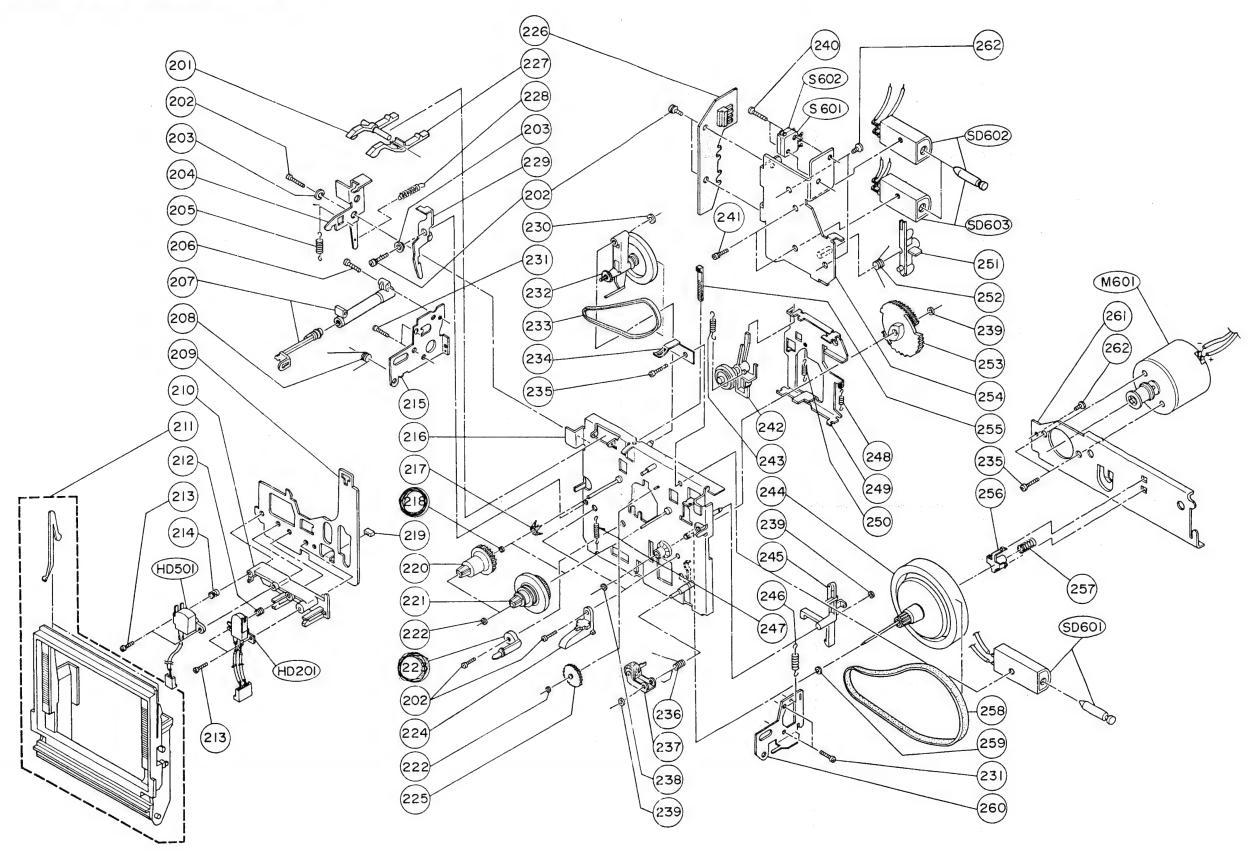
^{•:} For multi-voltage model only.

[:] For single-voltage model only.



AL-55 AL 55

Exploded View (Cassette Deck)



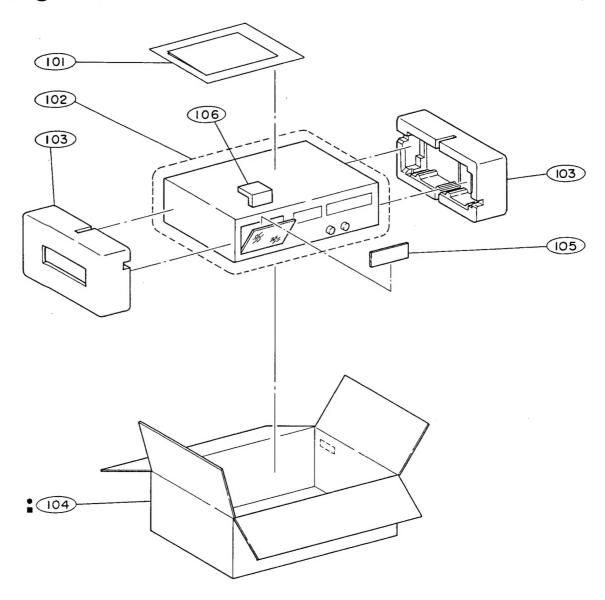
Cassette Deck Assembly Parts List

Symbol No.	Index	Part No.	Description
201 202 203		FD17T-12 KG194-12 FM296-11	Arm, Record Scerew, Tap Tite (M3 x 6) Spacer
204	1	FC11H-12 FK573-11	Arm, Lock Eject Spring, Arm Lock
208 209	2-B 2-B 2-B 3-B 3-B	*	Screw, Tap Tite Assembly, Dumper Spring, Door Base, Head Spacer, Head
212 213	3-B 3-B 4-B 3-C	FG137-15	Frame, Door Spring, Azimuth Screw, F-Lock (M2) Spring, Azimuth Bracket, Dumper
216 217 218 219 220	3-C	FP464-11	Assembly, Chassis Spring, Back Tension Slider, Polyester (M2) Pad, Cushion Assembly, Supply Reel
221 222 223 224 225	4-C 5-C	FJ123-14 FR358-12 FR360-12	Assembly, Take-up Reel Washer, Lock (M1.7) Reference, Guide Guide, Cassette Gear, Idler
226 227 228 229 230	1-D 1-D 2-D	F217-011 FR356-14 FK11C-11 FR352-11 FJ123-19	Assembly, Connector Panel Arm, Switch Brake Arm Spring Lever, Safety Washer, Lock (M3.5)
231 232 233 234 235	2-D 2-D 3-D	FP463-11	Screw, Machine (M3 x 5) Assembly, Clutch Belt, Sub Spring, Cassette Screw, Washer
236 237 238 239 240	5-E 5-E	F014-053 FJ141-12 FJ123-21	Spring, Pinch Roller Assembly, Pinch Roller Shield, Oil Washer, Lock (M2.6) Screw, Machine (M2.6)

Symbol No.	Index	Part No.	Description
			Screw, Machine (M2.6 x 3)
241 242	2-E 3-E	FG143-17 FP469-12	Assembly, Idler
	3-E		Spring, Play Idler
244		FP467-11	Assembly, Flywheel
245	4-E	FR359-12	Arm, Play Solenoid
	4-E	FK576-12	Spring, Play Solenoid Arm
	4-E	FK578-13	Spring, Head Base Push
248		FK574-12	Spring, Assist Base
249			Base, Assist
250	4-F	FK577-12	Spring, Head Base
251	2-G	FR355-12	Arm, FF Solenoid
252	2-G	FK570-12	Spring, Solenoid Bracket
1	3-G		Gear, Play
	3-G	I .	Assembly, Solenoid Bracket
255	3-G	FH126-11	Band, Connector
256	3-G	FM281-11	Spacer, Flywheel
	4-G	1	Thrust, Spring
258	5-G	FP462-11 —	Belt, Main
259	5-G	FJ111-12	Slider, Polyester (M2.1 \times 0.5)
260	5-G	*	Bracket, Door
261 262	2-G	* KG194-46	Bracket, Motor Screw, Tap, Tite (M3 x 4)

^{*} Parts without part number are not supplied.

Packing Method View



Packing Assembly Parts List

Symbol No.	Part No.	Description
101	1V53900F44	Assembly, Pamphlet
101-1	28T44352F01	Plug, Output Cord
101-2	*	Sack, Polyethylene
101-3	68P52551F15	Manual, Owner's (AL-55)
102	56B40230G23	Sack, Polyethylene
103	56C44350F01	Tray, Packing
• 104	56C50570F28	Carton, Packing
■ 104	56C50570F29	Carton, Packing
105	15A41885U01	Cover, Door
106	56A56430F01	Tray, Packing (DOOR)

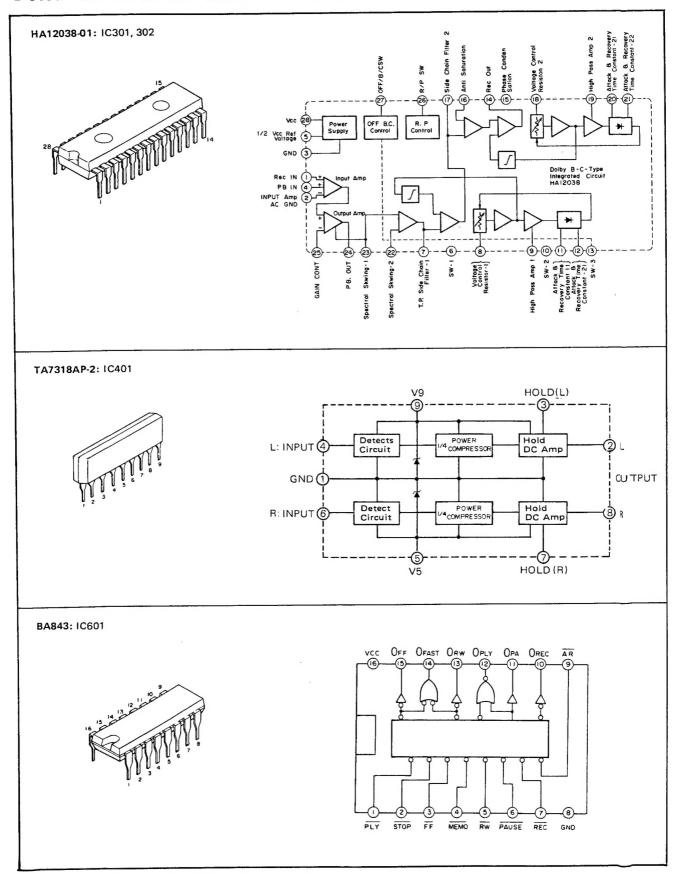
Part No.	Description
	Part No.

^{*} Parts without part number are not supplied.

[•] For multi-voltage model only

[■] For single-voltage model only

Semi-Conductor Lead Identifications



2SD880: Q101, 102, 508, 509

Q205, 206, 303, 405, 406, 602, 603, 605, 606, 607, Q609, 611, 612, 616, 617, 618, 619, 620, 621, 622, 2SD636:

2SB788: Q604 2SC1980: Q201, 202, 203, 204, 505, 506

2SC1890: Q201, 202, 203, 204, 505, 506

2SC1815: Q205, 206, 303, 405, 406, 602, 603, 605, 606, 607,

Q609, 611, 612, 616, 617, 618, 619, 620, 621, 622,

Q623

2SC945: Q205, 206, 303, 405, 406, 602, 603, 605, 606, 607, Q609, 611, 612, 616, 617, 618, 619, 620, 621, 622,

Q623

2SC732: Q207, 208, 209, 210, 301, 302, 503, 504 2SC900: Q207, 208, 209, 210, 301, 302, 503, 504 2SC1842: Q207, 208, 209, 210, 301, 302, 503, 504

2SC1843: Q207, 208, 209, 210, 301, 302, 503, 504

2SC2263: Q211, 212 2SC2878: Q401, 402, 501, 502 2SC1318: Q403, 404, 507, 508, 613, 614, 615 2SC509: Q403, 404, 613, 614, 615

2SA733: Q601, 608, 610

2SA921: Q604



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